



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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NOTICE OF ACCEPTANCE (NOA)

Mule-Hide Products Co., Inc.
1195 Prince Hall Dr.
Beloit, WI 53511

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Mule-Hide Self-Adhered Roof System over Steel Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 13-0514.15 and consists of pages 1 through 14.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 15-0921.08
Expiration Date: 10/11/17
Approval Date: 09/15/16
Page 1 of 14

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Materials	SBS/APP
Deck Type:	Steel
Maximum Design Pressure	-90 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Nail Base	65' 8" x 3' 3-3/8"	ASTM D 6163, Type I	SBS modified asphalt coated fiberglass reinforced base sheet.
Nail Base P	65' 8" x 3' 3-3/8"	ASTM D 6164, Type I	SBS modified asphalt coated polyester reinforced base sheet.
SA Base Sheet FR	66' 8" x 3' 3-3/8"	ASTM D 6163, Type I	Self-adhered, fire-rated, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a smooth top surface.
SA Base Sheet	66' 8" x 3' 3-3/8"	ASTM D 6163, Type I	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a smooth top surface.
SA-SBS Cap Sheet FR	32' 10" x 3' 3-3/8"	ASTM D 6164, Type I	Self-adhered, fire-rated, polyester reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
SA-SBS Cap Sheet	32' 10" x 3' 3-3/8"	ASTM D 6164, Type I	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
SA-APP Cap Sheet	32' 10" x 3' 3-3/8"	ASTM D 6222, Type I	Self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.
SA-APP Cap Sheet FR	32' 10" x 3' 3-3/8"	ASTM D 6222, Type I	Self-adhered, fire-rated, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.
SA-SBS KoolCap®	32' 10" x 3' 3-3/8"	ASTM D 6164, Type I	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
SA-SBS KoolCap® FR	32' 10" x 3' 3-3/8"	ASTM D 6164, Type I	Self-adhered, fire-rated, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
APP Torch G	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.

Mule-Hide 121 Asphalt Primer	1, 3, 5, 50, 55 gal, tube or 17 oz. spray can	ASTM D41	A penetrating solution of solvent and a blend of selected asphalts used to promote adhesion.
Mule-Hide 420 Mod Bit Adhesive Brush Grade	1, 3, 5, 50, 55 gal. or tube	ASTM D3019 Type III	A fibered rubberized adhesive designed for use with modified bitumen membranes.
Mule-Hide 211 Plastic Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586 ASTM D3409	A thick, fibered, rubberized flashing cement for use in dry or damp conditions.
Mule-Hide 221 Wet/Dry Plastic Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586 ASTM D3409	A thick, fibered, rubberized flashing cement for use in dry or damp conditions.
Mule-Hide 231 Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement.
Mule-Hide 251 Premium Wet-Dry Elastomeric Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.
Mule-Hide 241 Premium Modified Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A mastic compound for use as a roof flashing adhesive.

APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
Mule-Hide Poly ISO 1	Polyisocyanurate foam insulation	Mule-Hide Products Co., Inc.
Poly ISO 2	Polyisocyanurate foam insulation	Mule-Hide Products Co., Inc.
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corp.
ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corp.
High Density Wood Fiberboard	Wood fiber insulation board	Generic
EPS	Expanded Polystyrene	Generic
DensDeck, DensDeck Prime	Gypsum insulation board	Georgia Pacific Gypsum, LLC.
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC.
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville Corp.
Fesco Board	Expanded mineral fiber	Johns Manville Corp.
SECUROCK Gypsum-fiber Roof Board	Fiber reinforced coverboard	United States Gypsum Corporation

APPROVED FASTENERS/ADHESIVES:**TABLE 3**

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Dekfast 14 & 15 HS	Insulation fastener for wood, steel and concrete decks		SFS Intec, Inc.
2.	Dekfast Galvalume Steel Hex Plate	Galvalume hex stress plate.	2 7/8" x 3 1/4"	SFS Intec, Inc.
3.	Dekfast Isofast IFC/IW-70x70	Galvalume 19 ga. steel insulation and membrane attachment stress plate	2 3/4" x 2 3/4"	SFS Intec, Inc.
4.	Mule-Hide HDP Fastener	Insulation fastener for wood, steel and concrete decks	Various	Mule-Hide Products Co., Inc.
5.	Mule-Hide EHD Fastener	Carbon steel fastener for use in concrete, steel and wood decks	Various	Mule-Hide Products Co., Inc.
6.	Mule-Hide 3" Insulation Plate	Round Galvalume AZ50 steel plate	3 round	Mule-Hide Products Co., Inc.
7.	#12 Standard Roofgrip	Insulation fastener for wood, steel and concrete decks.	Various	OMG, Inc.
8.	PG325 Cold Process Adhesive	A fibered cold process adhesive for use with roll or BUR roofing.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
9.	XtraFlex 10 Asphalt Primer	A penetrating solution of solvent and a blend of selected asphalts used to promote adhesion.	1, 3, 5, 50, 55 gal, tube or 17 oz. spray can	Polyglass USA, Inc.
10.	PG500 MB Flashing Cement	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
11.	Polyplus 35 Premium Mod Bit Adhesive	A fibered rubberized adhesive designed for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
12.	XtraFlex 35 Premium Mod Bit Adhesive	A fibered rubberized adhesive designed for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
13.	Polyplus 45 Premium Flashing Cement	A thick, fibered, rubberized flashing cement.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
14.	XtraFlex 50 Premium Modified Wet/Dry Cement	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.

APPROVED SURFACING:**TABLE 4**

<u>Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
PG200 Non-Fibered Roof Coating	A non fibered asphaltic coating used to add life and rejuvenate existing BUR roofing substrates.	1½-2 gal/sq	TAS 140	Polyglass USA, Inc.
XtraFlex 20 Bituminous Roof Coating	A non fibered asphaltic coating used to add life and rejuvenate existing BUR roofing substrates.	1½-2 gal/sq	TAS 140	Polyglass USA, Inc.
Mule-Hide 102 Fibrated Roof Coating	An asphalt cutback fibered roof coating. May be applied by brush or spray equipment to rejuvenate aged BUR	1½-2 gal/sq	ASTM D4479	Mule-Hide Products Co., Inc.
XtraFlex Bituminous Roof Coating Fibered	An asphalt cutback fibered roof coating. May be applied by brush or spray equipment to rejuvenate aged BUR	1½-2 gal/sq	ASTM D4479	Polyglass USA, Inc.
Mule-Hide 416 Standard Non-Fibrated Aluminum Roof Coating	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Mule-Hide Products Co., Inc.
Mule-Hide 406 Standard Fibrated Aluminum Roof Coating	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Mule-Hide Products Co., Inc.
PG700 Elastomeric Roof Coating	A premium white elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
PG800 Non-Fibered Asphalt Emulsion Roof Coating	An asphalt base, un-fibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Polyglass USA, Inc.
XtraFlex 80 Emulsion Roof Coating	An asphalt base, un-fibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Polyglass USA, Inc.
Mule-Hide 401 Premium Fibrated Aluminum Roof Coating	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Mule-Hide Products Co., Inc.
XtraFlex 65 Aluminum Roof Coating Fibered	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Polyglass USA, Inc.
Mule-Hide 410 Premium Non-Fibrated Aluminum Roof Coating	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Mule-Hide Products Co., Inc.
XtraFlex 60 Aluminum Roof Coating	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Polyglass USA, Inc.

APPROVED SURFACING:

TABLE 4

Polybrite 70 Premium Grade Elastomeric Roof Coating	A premium white elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
XtraFlex 70 Premium Acrylic FR Roof Coating	A premium white elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
Polybrite 90 High Solids Silicone Roof Coating	A premium grade high solids, single component, moisture cure, fluid applied silicone coating	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
XtraFlex SRC 9600 High Solids Silicone Roof Coating	A premium grade high solids, single component, moisture cure, fluid applied silicone coating	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
Polybrite 95 Silicone Roof Coating	A single component, solvent, moisture cure silicone coating.	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
XtraFlex SRC 8000 Silicone Roof Coating	A single component, solvent, moisture cure silicone coating.	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
Gravel	To be installed in a flood coat of approved asphalt at 60 lbs/sq	400 lbs/sq	N/A	Generic
Slag	To be installed in a flood coat of approved asphalt at 60 lbs/sq	300 lbs/sq	N/A	Generic

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Name/Report</u>	<u>Report No.</u>	<u>Date</u>
Factory Mutual Research Corporation	4470	2W7A7.AM	08.04.94
	4450	2D5A9.AM	06.22.99
	4470	3001334	02.15.00
	4470	3000857	01.12.00
	4470	3004091	01.12.00
	4470	3012321	07.29.07
	4450	3014751	08.27.03
	4450	3019317	06.30.04
	4470	3014692	08.05.03
Trinity ERD	TAS 114	11752.09.99-1	02.08.00
	TAS 114	02764.09.05	09.09.05
	TAS 114	02762.03.05	03.30.05
	TAS 117(B)-ASTM D903	020841.06.04	06.02.04
	TAS 114	P1734.07.06-R1	02.27.07
	TAS 114	P1738.02.07	02.05.07
	TAS 114	P1739.01.07	01.23.07
	TAS 117(B)-ASTM D6862	C8500SC.11.07	11.30.07
	ASTM D6164 / ASTM D6222	P10490.08.08	08.13.08
	ASTM D6164 / ASTM D6222	P10490.10.08-R1	10.03.08
	ASTM D6222	P7400.03.08-R2	10.09.08
	TAS 114(D) – ASTM D1876	P10070.10.08	10.09.08
	ASTM D6222	P10490.10.08-2	10.30.08
	FM 4470 & TAS 114	P33970.03.11	03.15.11
	ASTM D6163 / ASTM D 4601	P33960.03.11	03.15.11
	ASTM D6164	P37590.07.13-1	07.02.13
	ASTM D6164	P37590.03.13-3A	03.06.13
	ASTM D6163	P37590.03.13-2-R1	02.05.13
	ASTM D6222	P37590.09.13	09.12.13
	ASTM D4601 / TAS 117	P45940.09.13	09.04.13
	TAS 114 & FM 4474	P41630.08.13	08.06.13
	TAS 114 (H)	P13760.09.09	09.10.09
	ASTM D4601 / TAS 117	P45970.05.14	05.12.14
PRI Construction Materials Technologies	ASTM D6222	PUSA-061-02-02	01.28.08
	ASTM D6222	PUSA-062-02-02	12.04.08
	ASTM D6163	PUSA-064-02-02	02.27.08
	ASTM D6694	PUSA-134-02-01	05.16.14
	ASTM D6694	PUSA-135-02-01	05.16.14

APPROVED ASSEMBLIES:

Membrane Type:	SBS/APP
Deck Type 2I:	Steel, Insulated
Deck Description:	18-22 ga. Type B, Grade C steel deck fastened 6 in. o.c. with Tek/5 screws to steel supports spaced 5 ft o.c. Deck side laps are attached with Tek/1 screws spaced 20" o.c.
System Type B(1):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt. Membrane is subsequently adhered to insulation.

All General and System limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ENRGY-3, AC Foam-II, Poly ISO 2, H-Shield, Mule-Hide Poly ISO 1 Minimum 1.5" thick	1 or 2	1:1.33 ft²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved High Density Wood Fiberboard Minimum ½" thick	N/A	N/A
Fesco Board Minimum ¾" thick	N/A	N/A

Note: Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as Base Layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet:	One or more plies of Nail Base approved base sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Primer:	PG100 Asphalt Primer or XtraFlex 10 Asphalt Primer.
Ply Sheet:	One or more plies of SA Base Sheet or SA Base Sheet FR, self-adhered.



Membrane: One ply of SA-SBS KoolCap[®], SA-SBS KoolCap[®] FR, SA-SBS Cap Sheet, SA-SBS Cap Sheet FR, SA-APP Cap Sheet or SA-APP Cap Sheet FR, self-adhered.
Or
One ply of APP Torch G, torch-applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -90 psf; (See General Limitation #7.)



Membrane Type: SBS/APP

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade C steel deck fastened 6 in. o.c. with Traxx 5 screws to steel supports spaced 5 ft o.c. Deck side laps are attached with Traxx 1 screws spaced 20" o.c.

System Type C(1): Base layer of insulation mechanically fastened, top layer adhered with approved asphalt. Membrane is subsequently adhered to insulation.

All General and System limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ENRGY-3, ACFoam-II, Poly ISO 2, H-Shield, Mule-Hide Poly ISO 1 Minimum 1.5" thick	1, 3, 4, 5 or 7	1:1.33 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of SA Base Sheet or SA Base Sheet FR, self-adhered.

Membrane: One ply of SA-SBS KoolCap®, SA-SBS KoolCap® FR, SA-SBS Cap Sheet, SA-SBS Cap Sheet FR, SA-APP Cap Sheet or SA-APP Cap Sheet FR, self-adhered.
Or
One ply of APP Torch G, torch-applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -82.5 psf; (See General Limitation #7.)



Membrane Type:	SBS/APP
Deck Type 2I:	Steel, Insulated
Deck Description:	18-22 ga. Type B, Grade C steel deck fastened 6 in. o.c. with Tek/5 screws to steel supports spaced 5 ft o.c. Deck side laps are attached with Tek/1 screws spaced 20" o.c.
System Type D(1):	All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

All General and System limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved Polyisocyanurate listed in Table 2 Minimum 1" thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Fesco Board Minimum 3/4" thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum 1/2" thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet:	One ply of Nail Base or Nail Base P fastened to the deck as described below.
Fastening:	Attach base sheet using Dekfast 14 or Dekfast 15 HS fasteners with Galvalume Steel Hex Plates or Mule-Hide HDP Fasteners or Mule-Hide EHD Fasteners with Mule-Hide 3" Insulation Plates 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.
Ply Sheet:	One or more plies of SA Base Sheet or SA Base Sheet FR, self-adhered.



Membrane: One or more plies of SA-SBS KoolCap®, SA-SBS KoolCap® FR, SA-APP Cap Sheet FR, SA-APP Cap Sheet, SA-SBS Cap Sheet or SA-SBS Cap Sheet FR, self-adhered.
Or
One ply of APP Torch G, torch-applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -52.5 psf; (See General Limitation #7.)



STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117; calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.



GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE